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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/770,711	02/02/2004	Paul J. Steffan	Н0897	2278
22898 75	90 10/23/2006		EXAMINER	
	FFICES OF MIKIO	DIMYAN, MAGID Y		
333 W. EL CAMINO REAL SUITE 330 SUNNYVALE, CA 94087			ART UNIT	PAPER NUMBER
			2825	

DATE MAILED: 10/23/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		10/770,711	STEFFAN, PAUL J.				
		Examiner	Art Unit				
		Magid Y. Dimyan	2825				
Danie d fe	The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
Period for Reply							
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE in a soft time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period we are to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICA 6(a). In no event, however, may a rep ill apply and will expire SIX (6) MONTH cause the application to become ABAI	ATION.  by be timely filed  IS from the mailing date of this communication.  NDONED (35 U.S.C. § 133).				
Status							
1)[	Responsive to communication(s) filed on <u>02 Oc</u>	<u>ctober 2006</u> .					
2a)⊠	Γhis action is FÍNAL. 2b) ☐ This action is non-final.						
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	ion of Claims						
4)⊠	Claim(s) <u>1-20</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠	Claim(s) <u>1-20</u> is/are rejected.						
*	Claim(s) is/are objected to.						
8)∐	Claim(s) are subject to restriction and/or	election requirement.					
Applicati	on Papers						
9) ☐ The specification is objected to by the Examiner.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
	Applicant may not request that any objection to the d	rawing(s) be held in abeyance	e. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority u	ınder 35 U.S.C. § 119						
12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)☐ All b)☐ Some * c)☐ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
		•					
Attachment							
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) ∐ Interview Sun Paper No(s)/N	nmary (PTO-413) Mail Date				
3) Information Disclosure Statement(s) (PTO/SB/08)  5) Notice of Informal Patent Application							
Paper No(s)/Mail Date 6) Other:							

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#### **DETAILED ACTION**

1. This is with regards to the Amendment after Final Rejection, and Remarks, filed 10/02/2006. Applicant has amended claims 1 – 20. Claims 1 – 20 remain pending in this Application.

### Response to Remarks

2. Applicant's remarks/arguments with respect to the rejections of claims 1 - 20 under 35 U.S.C 102 (b) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of U.S. Patent No. 6,507,933 B1 to Kirsch et al.

## Claim Rejections - 35 USC § 102

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

- 3. Claims 1 20 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 6,507,933 B1 to Kirsch et al. (hereinafter, "Kirsch").
- 4. Referring to claims 1 and 11, Kirsch teaches a method (claim 1) and a system (claim 11 Abstract; col. 2, II. 59 67) for facilitating semiconductor wafer lot disposition (see col. 2, II. 3 22) comprising: a) providing detailed descriptive information of the semiconductor wafer layout (see col. 1, II. 11 21; col. 11, II. 52 58, which cite ASIC and semiconductor wafers and dies of integrated circuits in manufacture; IC's can only be manufactured by providing detailed descriptive information of a layout); (b) locating and defining current defects in partially completed dies of a semiconductor wafer in a wafer production lot to generate data concerning at least one defect in the

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semiconductor wafer at an intermediate processing stage (see col. 2, II. 8 - 12); (c) generating at least one layer model from the information and data to disclose the effects of the defect upon at least one later layer of the semiconductor layer (see col. 2, II. 3 – 22; col. 2, II. 35 -41); and (d) utilizing the layer model to determine the subsequent disposition of the wafer production lot (see again col. 2, II. 3 – 50; col. ). Kirsch therefore clearly discloses, or at the very least suggests, the claimed limitations.

- 5. Pursuant to claims 2 and 3 see col. 2, II. 31 40; col. 2, II. 59 67; col. 5, II. 1 30, which suggest the limitations pertaining to generating and utilizing a layer model (i.e., defect signature) to determine subsequent disposition of the wafer production lot (claim 3), and suggesting the locations of components above a defect in a wafer (claim 2).
- 6. As for claim 4, see items (4) and (5) above, as well as col. 4, II. 44 67, which cite the likely cause and clustering of possible defects in a production wafer lot, as claimed.
- 7. Referring to claim 5, see again col. 11, II. 41 58, which teach computer program for laying out an ASIC or standard cell design which require a netlist in order to perform the layout.
- 8. With regards to claims 6 and 16, Kirsch teaches a method (claim 6) and a system (claim 16 see also item (4) above) for facilitating semiconductor wafer lot disposition (see item (4) above) comprising: a) providing detailed descriptive information of the semiconductor wafer layout (see item (7) above); (b) locating and defining current defects in partially completed dies of semiconductor wafers in a wafer production lot to

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generate and extract data concerning defects in the semiconductor wafers at an intermediate processing stage (see item (4) above); (c) generating at least one layer model from the information and data to disclose the future effects of the current defects upon later layers at subsequent stages of the process(see item (4) above); and (d) utilizing the layer model to determine the subsequent disposition of the wafer production lot (see again item (4) above). Kirsch therefore discloses the claimed limitations.

- 9. Claims 7, 12 and 17 contain the same limitations as claim 2, and therefore the same rejections also apply.
- 10. Claims 8, 13 and 18 contain the same limitations as claim 3, and therefore the same rejections also apply.
- 11. Claims 9, 14 and 19 contain the same limitations as claim 4, and therefore the same rejections also apply.
- 12. Claims 10, 15 and 20 contain the same limitations as claim 5, and therefore the same rejections also apply.
- 13. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

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shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Magid Y. Dimyan whose telephone number is (571) 272-1889. The examiner can normally be reached on Monday - Friday 8:00 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack Chiang can be reached on (571) 272-7483. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Magid Y Dimyan Examiner Art Unit 2825 Application/Control Number: 10/770,711

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myd 16 October 2006

ACK CHIANG

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